

**7X7****DOUBLE DIODE—HIGH-MU TRIODE**

7X7

GENERAL DATA**Electrical:**

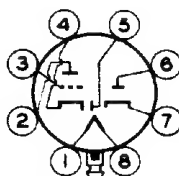
Heater, for Unipotential Cathodes:

Voltage. . . . . 6.3<sup>□</sup> . . . . . ac or dc volts  
 Current. . . . . 0.3<sup>□□</sup> . . . . . amp

**Mechanical:**

Mounting Position. . . . . Any  
 Maximum Overall Length . . . . . 2-25/32"  
 Maximum Seated Length. . . . . 2-1/4"  
 Maximum Diameter . . . . . 1-3/16"  
 Bulb . . . . . T-9  
 Base . . . . . Lock-in 8-Pin  
 Basing Designation for BOTTOM VIEW . . . . . 8BZ

Pin 1—Heater  
 Pin 2—Triode Plate  
 Pin 3—Triode Grid  
 Pin 4—Cathode  
       (Triode &  
       Diode No.1)  
       Internal  
       Shield



Pin 5—Diode Plate  
       No.1  
 Pin 6—Diode Plate  
       No.2  
 Pin 7—Cathode  
       (Diode No.2)  
 Pin 8—Heater  
 Plug — Base Shell

TRIODE UNIT  
AMPLIFIER—Class A<sub>1</sub>

**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE. . . . . 300 max. volts  
 PEAK HEATER-CATHODE VOLTAGE:  
   Heater negative with respect to cathode . . . . . 90 max. volts  
   Heater positive with respect to cathode . . . . . 90 max. volts

**Typical Operation and Characteristics:**

Plate Voltage. . . . .	100	250	volts
Grid Voltage . . . . .	0	-1	volt
Amplification Factor . . . . .	85	100	
Plate Resistance . . . . .	85000	67000	ohms
Transconductance . . . . .	1000	1500	μmhos
Plate Current . . . . .	1.2	1.9	ma

DIODE UNITS — Two

The 7X7 differs from the usual twin-diode-triode in that diode No.2 has its own cathode, separate from that used for the triode and diode No.1.

□ Nominal voltage = 7.0 volts.

□□ Nominal current = 0.32 ampere.

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**TUBE DEPARTMENT**  
 RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA